

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant:** Matthew Patricelli  
**Title:** ACTIVITY BASED PROBE  
ANALYSIS  
**Appl. No.:** 10/049,164  
**Filing Date:** 10/21/2002  
**Examiner:** S. Haq  
**Art Unit:** 1641  
**Conf. No.** 6075

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OCT 14 2005

**AFFIDAVIT UNDER 37 CFR 1.131**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Matthew P. Patricelli, being duly sworn, deposes and says

1. I am the inventor of the patent application identified above and the subject matter described and claimed therein.
2. Prior to April 10, 2000, I conceived the idea of using fluorescent compounds as detectable labels on probes for the purposes of quantitatively assaying one or more serine hydrolases in a protein mixture. Specifically, the fluorescent labeled probes can be used to measure the presence of catalytically active serine hydrolases in a protein mixture.
3. As shown by U.S. Prov. App. 60/195,954, I conceived the use of fluorescent compounds (e.g. fluorescein, rhodamine, Texas red, etc.) as a detectable label on a probe compound. (See U.S. Prov. App. 60/195,954, page 3, lines 13 and 26-27). The use of the fluorescent labels would provide a distinguishable signal, e.g. fluorescence at a different wavelength, for differentiation of different compounds. (See U.S. Prov. App. 60/195,954, page 6, lines 19-23, and page 7, lines 13-17).
4. The subject of my research was filed as part of U.S. Provisional Patent Application 60/195,954, filed April 10, 2000. Benjamin F. Cravatt and Martha A. Lovato were co-inventors

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on the provisional patent application, however I alone conceived the idea of using fluorescent activity based probes for detection purposes.

6. I hereby declare that all statements made herein of my known knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements are so made punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

10/13/2005  
Date

  
Matthew P. Patricelli

Enclosure